



PCT

RAW SEQUENCE LISTING

DATE: 02/26/2005

PATENT APPLICATION: US/10/524,630

TIME: 10:51:49

Input Set : A:\PH-1850PCT-USsequencelisting.txt

Output Set: N:\CRF4\02262005\J524630.raw

```

3 <110> APPLICANT: National Institute of Advanced Industrial Science and Technology
5 <120> TITLE OF INVENTION: A novel lysozyme sensitive microorganism
7 <130> FILE REFERENCE: PH-1850-PCT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/524,630
C--> 10 <141> CURRENT FILING DATE: 2005-02-16
12 <150> PRIOR APPLICATION NUMBER: JP 2002/239554
13 <151> PRIOR FILING DATE: 2002-08-20
15 <160> NUMBER OF SEQ ID NOS: 2
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 5108
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Plasmid pHN144
27 <400> SEQUENCE: 1
28 gagctcgacc ggcgcggtcc cggacgggga agagcgggga gctttgccag agagcgacga 60
29 cttcccccttg cgttggtgat tgccgggtcag ggcagccatc cgccatcgtc gcgtagggtg 120
30 tcacaccccca ggaatcgcggt cactgaacac agcagccggt aggacgacca tgactgagtt 180
31 ggacaccatc gcaaatccgt ccgatcccg cgtgcagcgg atcatcgatg tcaccaagcc 240
32 gtcacgatcc aacataaaga caacgttgat cgaggacgtc gagcccctca tgcacagcat 300
33 cgcggccggg gtggagttca tcgaggtcta cggcagcgac agcagtcctt ttccatctga 360
34 gttgctggat ctgtgcgggc ggcagaacat accggtccgc ctcatcgact cctcgatcgt 420
35 caaccagttg ttcaaggggg agcgggaaggc caagacattc ggcatcgccc gcgtccctcg 480
36 cccggccagg ttccggcgata tcgcgagccg gcgtggggac gtcgtcggtt tcgacggggt 540
37 gaagatcgtc gggaacatcg gcgcgatagt acgcacgtcg ctgcgcgtcg gagcgtcggg 600
38 gatcatcctg gtggacagtg acatcaccag catcgcgga cggcgtctcc aaagggccag 660
39 ccgaggttac gtcttctccc ttcccgctcg tctctccggt cgcgaggagg ccatcgccct 720
40 cattcgggac agcggtatgc agctgatgac gctcaaggcg gatggcgaca tttccgtgaa 780
41 ggaactcggg gacaatccgg atcggctggc cttgctgttc ggcagcgaaa aggggtgggc 840
42 ttccgacctg ttcgaggagg cgtcttccgc ctcggtttcc atccccatga tgagccagac 900
43 cgagtctctc aacgtttccg tttccctcgg aatcgcgctg cagcagagga tcgacaggaa 960
44 tctcgcggcc aaccgataag cgctctgtt cctcggacgc tcggttcctc gacctcgatt 1020
45 cgtcagtgat gatcacctca cacggcagcg atcaccactg acatatcgag gtcaacggtc 1080
46 gtggtccggg cgggcaactc tcgaaggcgc ggccgacgcc cttgaacgac tcgatgactc 1140
47 tagaggatcc ccgggtaccg agctcgtcag gtggcacttt tcggggaaat gtgcgcggaa 1200
48 cccctatttg tttatttttc taaatacatt caaatatgta tccgctcatg agacaataac 1260
49 cctgataaat gcttcaataa tattgaaaaa ggaagagat gagtattcaa catttccgtg 1320
50 tcgcccttat tccctttttt gcggcatttt gccttcctgt ttttgctcac ccagaaacgc 1380
51 ttggtgaaagt aaaagatgct gaagatcagt tgggtgcacg agtgggttac atcgaactgg 1440
52 atctcaacag cggtaagatc cttgagagtt ttcgccccga agaacgtttt ccaatgatga 1500
53 gcacttttaa agttctgcta tgtggcgcgg tattatcccg tattgacgcc gggcaagagc 1560
54 aactcggtcg ccgcatacac tattctcaga atgacttggt tgagtactca ccagtcacag 1620

```

RAW SEQUENCE LISTING

DATE: 02/26/2005

PATENT APPLICATION: US/10/524,630

TIME: 10:51:49

Input Set : A:\PH-1850PCT-USsequencelisting.txt

Output Set: N:\CRF4\02262005\J524630.raw

```

55 aaaagcatct taccgatggc atgacagtaa gagaattatg cagtgtctgcc ataaccatga 1680
56 gtgataaacac tgcggccaac ttacttctga caacgatcgg aggaccgaag gagctaaccg 1740
57 ctttttttgca caacatgggg gatcatgtaa ctgcgcttga tcgttgggaa ccggagctga 1800
58 atgaagccat accaaacgac gagcgtgaca ccacgatgcc tgtagcaatg gcaacaacgt 1860
59 tgcgcaaact attaactggc gaactactta ctctagcttc ccggcaacaa ttaatagact 1920
60 ggatggaggc ggataaagtt gcaggaccac ttctgcgctc ggcccttcgc gctggctggg 1980
61 ttattgctga taaatctgga gccggtgagc gtgggtctcg cggtatcatt gcagcactgg 2040
62 ggccagatgg taagccctcc cgtatcgtag ttatctacac gacggggagt caggcaacta 2100
63 tggatgaacg aaatagacag atcgtgaga taggtgcctc actgattaag cattggtaac 2160
64 tgtcagacca agtttactca tatatacttt agattgattt aaaacttcat ttttaattta 2220
65 aaaggatcta ggtgaagatc ctttttgata atctcatgac caaaatccct taacgtgagt 2280
66 tttcgttcca ctgagcgtca gaccccgtag aaaagatcaa aggatcttct tgagatcctt 2340
67 tttttctgcg cgtaactctgc tgcttgcaaa caaaaaaac accgtacca gcggtgggtt 2400
68 gtttgccgga tcaagactca ccaactcttt tccggaagg aaactggctt agcagagcgc 2460
69 agataccaaa tactgttctt ctagtgtagc cgtagttagg ccaccacttc aagaactctg 2520
70 tagcaccgcc tacatactc gctctgctaa tctgttacc agtggctgct gccagtggcg 2580
71 ataagtcgtg tcttaccggg ttggactcaa gacgatagtt accggataag gcgcagcggg 2640
72 cgggctgaac gggggggttcg tgcacacagc ccagcttggg gcgaacgacc tacaccgaac 2700
73 tgagatacct acagcgtgag ctatgagaaa gcgccacgct tcccgaaggg agaaaggcgg 2760
74 acaggatccc ggtaagcggc agggctcgaa caggagagcg cacgagggag cttccagggg 2820
75 gaaacgcctg gtatctttat agtctgtcgc ggtttcgcca cctctgactt gagcgtcgat 2880
76 ttttgtgatg ctgcgcaggg gggcggagcc tatggaaaaa cgccagcaac gcggcctttt 2940
77 tacggttcct ggctttttgc tggccttttg ctacatgtt ctttcctgcg ttatcccctg 3000
78 attctgtgga taaccgtatt accgcctttg agtgagctga taccgctcgc cgcagccgaa 3060
79 cgaccgagcg cagcagatca gtgagcaggg aagcggaaag gcgccaata cgcaaacgcg 3120
80 ctctccccgc gcgttgccg attcattaat gcagctggca cgactagtgtg tacacccgag 3180
81 aagctcccag cgtcctcctg ggccgcgata ctgcaccacc acgcacgcac accgcactaa 3240
82 cgattcggcc ggcgctcgat tcggccggcg ctgcattcgg ccggcgctcg attcggccgg 3300
83 cgctcgattc ggccggcgct cgattcggcc gagcagaaga gtgaacaacc accgaccagc 3360
84 cttccgctct gcgcgcgta cccgacctac ctcccgcagc tcgaagcagc tcccgggagt 3420
85 accgcgctac tcacccgcct gtgctcacca tccaccgagc caaagcccaa cccgagcaca 3480
86 cctcttgcac caaggtgccc accgtggctt tccgctcgca gggttccaga agaaatcgaa 3540
87 cgatccagcg cggcaagggt caaaaagcag ggggttgggt ggaggagggt ttgggggggtg 3600
88 tcgccgggat acctgatatg gctttgtttt gcgtagtcga ataattttcc atatagcctc 3660
89 ggcgcgtcgg actcgaatag ttgatgtggg cgggcacagt tgccccatga aatccgcaac 3720
90 ggggggcgtg ctgagcgatc ggcaatgggc ggatgcggtg ttgcttcgcg accggccggt 3780
91 cgcgacgaac aacctccaac gaggtcagta ccgatgagc cgcgacgagc cattggcaat 3840
92 gcggtacgtc gagcattcac cgcacgcgtt gtcggatct atcgtcatcg actgcgatca 3900
93 cgttgacgcc gcgatgcgcg cattcgagca accatccgac catccggcgc cgaactgggt 3960
94 tgcacaatcg ccgtccggcc gcgcacacat cggatgggtg ctccggccca accacgtgtg 4020
95 ccgcaaccgac agcgcgccgac tgacgccact gcgctacgcc caccgcatcg aaaccggcct 4080
96 caagatcagc gtcggcgggc atttcgcgta tggcgggcaa ctgacaaaaa acccgattca 4140
97 ccccgattgg gagacgatct acggcccggc caccgccgtac acattgcggc agctggccac 4200
98 catccacaca ccccgcgaga tgccgcgtcg gcccgatcgg gccgtgggccc tgggcccga 4260
99 cgtcaccatg ttcgacgcca cccggcgatg ggcatacccg cagtgggtggc aacaccgaaa 4320
100 cggaaaccggc cgcgactggg accatctcgt cctgcagcac tgccacgccc tcaacaccga 4380
101 gtttcagaca ccaactgcgt tcaccgaagt acgcgccacc gcgcaatcca tctccaaatg 4440
102 gatctggcgc aatttcaccg aagaacagta ccgagcccga caagcgcac tcggtcaaaa 4500
103 aggcggcaag gcaacgacac tcgcaaaaaca agaagccgtc cgaaacaatg caagaaagta 4560

```

RAW SEQUENCE LISTING

DATE: 02/26/2005

PATENT APPLICATION: US/10/524,630

TIME: 10:51:49

Input Set : A:\PH-1850PCT-USsequencelisting.txt

Output Set: N:\CRF4\02262005\J524630.raw

```

104 cgacgaacat acgatgcgag aggcgattat ctgatgggcg gagccaaaaa tccggtgcg 4620
105 cgaaagatga cggcagcagc agcagccgaa aaattcgggtg cctccactcg cacaatccaa 4680
106 cgcttggttg ctgagcccgcg tgacgattac ctcggccgtg cgaaagctcg ccgtgacaaa 4740
107 gctgtcgagc tgcggaagca ggggttgaag taccgggaaa tcgccgaagc gatggaactc 4800
108 tcgaccggga tcgtcgggccg attactgcac gacgcccgca ggcacggcga gatttcagcg 4860
109 gaggatctgt cggcgtaacc aagtcagcgg gttgtcgggt tccggccggc gctcggcact 4920
110 cggaccggcc ggcggatggt gttctgcctc tggcgacgcg tcagctaccg ccgaaggcct 4980
111 gtcacgcagc ggcttcgact gaagtatgag caacgtcaca gcctgtgatt ggatgatccg 5040
112 ctcacgctcg accgctacct gttcagctgc cgcccgtgg gcacgagcaa cggccaactc 5100
113 tcgttcaa
115 <210> SEQ ID NO: 2
116 <211> LENGTH: 8971
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence: Plasmid pHN170
123 <400> SEQUENCE: 2
124 gagctcgacc gcgcgggtcc cggacgggga agagcgggga gctttgccag agagcgacga 60
125 cttccccttg cgttggtgat tgccggtcag ggcagccatc cgccatcgtc gcgtaggggtg 120
126 tcacacccca ggaatcgct cactgaacac agcagccggt aggacgacca tgactgagtt 180
127 ggacaccatc gcaaatccgt ccgatcccgc ggtgcagcgg atcatcgatg tcaccaagcc 240
128 gtacagatcc aacataaaga caacgttgat cgaggacgtc gagcccctca tgcacagcat 300
129 cgcgccgggg gtggagttca tcgaggtcta cggcagcgac agcagtcctt ttccatctga 360
130 gttgctggat ctgtgcgggc ggcagaacat accggtccgc ctcatcgact cctcgatcgt 420
131 caaccagttg ttcaaggggg agcgggaaggc caagacattc ggcatcgccc gcgtccctcg 480
132 cccggccagg ttcggcgata tcgcgagccg gcgtggggac gtcgtcgttc tcgacgggggt 540
133 gaagatcgtc gggaacatcg gcgcgatagt acgcacgtcg ctcgcgctcg gagcgtcggg 600
134 gatcatcctg gtggacagt acatcaccag catcgccgac cggcgtctcc aaagggccag 660
135 ccgaggttac gtcttctccc ttcccgtcgt tctctccggt cgcgaggagg ccacgcctt 720
136 cattcgggac agcggtatgc agctgatgac gctcaaggcg gatggcgaca tttccgtgaa 780
137 ggaactcggg gacaatccgg atcggctggc cttgctgttc ggcagcgaaa aggggtggg 840
138 ttccgacctg ttcgaggagg cgtcttccgc ctcggtttcc atccccatga tgagccagac 900
139 cgagtctctc aacgtttccg tttccctcgg aatcgcgctg cacgagagga tcgacaggaa 960
140 tctcgcggcc aaccgataag cgctctgtt cctcggacgc tcggttctc gacctcgatt 1020
141 cgtcagtgat gatcacctca cacggcagcg atcaccactg acatatcgag gtcaacggtc 1080
142 gtggtccggg cgggcactcc tcgaaggcgc ggccgacgcc cttgaacgac tcgatgactc 1140
143 tagagtaacg ggctactccg tttaacggac cccgttctca cgctttaggc ttgaccccgg 1200
144 agcctgcatg gggcattccg ccgtgaaccc ggtggaatgc ccccggcacc cgggctttcc 1260
145 agcaaagatc acctggcgcc gatgagtaag gcgtacagaa ccaactccaca ggaggaccgt 1320
146 cgagatgaaa tctaacaatg cgctcatcgt catectcggc accgtcacc tggatgctgt 1380
147 aggcataagg ttggttatgc cggtaactgc gggcctcttg cgggatatcg tccattccga 1440
148 cagcatcgcc agtcactatg gcgtgctgct agcgtatat gcgttgatgc aatttctatg 1500
149 cgacccggt ctcggagcac tgtccgaccg ctttggccgc cgccagtc tgcctcgttc 1560
150 gctacttga gccactatcg actacgcgat catggcgacc acaccgctc tgtggattct 1620
151 ctacgccgga cgcacgtgg ccggcatcac cggcgccaca ggtgcggtt ctggcgcta 1680
152 tatcgccgac ataccgatg gggaagatcg ggctgccac ttcgggctca tgagcgctt 1740
153 tttcggcgtg ggtatggtg caggccccgt ggccggggga ctgttggcg ccactcctt 1800
154 gcatgcacca ttccttgcg cggcgggtgt caacggcctc aacctactac tgggctgctt 1860
155 cctaatacgag gagtcgcata agggagagcg tcgtccgat cccttgagag ctttcaaccc 1920

```

RAW SEQUENCE LISTING

DATE: 02/26/2005

PATENT APPLICATION: US/10/524,630

TIME: 10:51:49

Input Set : A:\PH-1850PCT-USsequencelisting.txt

Output Set: N:\CRF4\02262005\J524630.raw

```

156 agtcagctcc ttccggtggg cgcggggcat gactatcgtc gccgcactta tgactgtctt 1980
157 ctttatcatg caactcgtag gacaggtgcc ggcagcgctc tgggtcattt tcggcgagga 2040
158 ccgctttcgc tggagcgga cgatgatcgg cctgtcgctt gcggtattcg gaatcttgca 2100
159 cgccctcgct caagccttcg tcaactggctc cgccaccaa cgtttcggcg agaagcaggc 2160
160 cattatcgcc ggcattggcgg ccgacgcgct gggctacgtc ttgctggcgt tcgcgacgcg 2220
161 aggctggatg gccttcccca ttatgattct tctcgcttcc ggcggcacgc ggatgcccgc 2280
162 gttgcaggcc atgctgtcca ggcaggtaga tgacgacct caggagacgc ttcaaggatc 2340
163 gctcgcggct cttaccagcc taacttcgat cattggaccg ctgatcgta cggcgattta 2400
164 tgccgcctcg gcgagcacat ggaacgggtt ggcattggatt gtaggcgccg ccctatacct 2460
165 tgtctgcctc cccgcgttgc gtcgcggtgc atggagccgg gccacctcga cctgaatgga 2520
166 agccggcgcc acctcgctaa cggattcacc actccaagaa ttggagcaa tcaattcttg 2580
167 cggagaactg tgaatgcga aaccaaccct tggcagaaca tatccatcgc gtccgccatc 2640
168 tccagcagcc gcacgcggcg catctcgggc agcgttgggt cctggccacg ggtgcgcaac 2700
169 tagaattgat ctctcgagcc gccaattggg catctgagaa tcatctgcgt ttctcgacg 2760
170 caacgtactt gcaacggttc aactcctagt gttgtgaatc acacccacc ggggggtggg 2820
171 attgcagtca ccgatttggg ggggtgcgcc aggaagatca cgtttacata ggagcttgca 2880
172 atgagctact ccgtgggaca ggtggccggc ttccgccggg tgacggtgcg cacgctgcac 2940
173 cactacgacg acatcgccct gctcgtaccg agcgcgcgca gccacgcggg ccaccggcgc 3000
174 tacagcgacg ccgacctcga ccggctgcag cagatcctgt tctaccggga gctgggcttc 3060
175 ccgctcgacg aggtcgccgc cctgctcgac gaccgcggcg cggaccgcgc cgcgcacctg 3120
176 cgccgccagc acgagctgct gtccgcccgg atcgggaaac tgcagaagat ggcggcgcc 3180
177 gtggagcagg cgatggaggc acgcagcatg ggaatcaacc tcaccccgga ggagaagttc 3240
178 gaggtcttcg gcgacttcga ccccgaccag tacgaggagg aggtccggga acgctggggg 3300
179 aacaccgacg cctaccgcca gtccaaggag aagaccgcct cgtacaccaa ggaggactgg 3360
180 cagcgcatcc aggacgaggc cgacgagctc acccgcgctc tcgtcgccct gatggacgcg 3420
181 ggtgagcccg ccgactccga gggggcgatg gacgcgcgcg aggaccaccg gcagggcac 3480
182 gccgcaacc actacgactg cgggtacgag atgcacacct gcctgggcga gatgtacgtg 3540
183 tccgacgaac gtttcacgcg aaacatcgac gccgccaagc cgggcctcgc cgcctacatg 3600
184 cgcgacgca tctctgcga cgccgtccgg cacacccct gagcgtggt cgtggcccg 3660
185 gtctcccgcc cggtctcacc ccacggctca ctcccgggc acgaccaccg ccgtcccgta 3720
186 cgcgcacacc tcggtgcca cgtccgcgcg ctccgtcacg tcgaaacgga agatcccccg 3780
187 gtaccgagct cgtcagggtg cacttttcgg ggaaatgtgc gcggaacccc tatttgttta 3840
188 tttttctaaa tacattcaaa tatgtatccg ctcatgagac aataaccctg ataaatgctt 3900
189 caataatatt gaaaaaggaa gagtatgagt attcaacatt tccgtgtcgc ccttattccc 3960
190 ttttttgccg cattttgcct tctgttttt gctcaccag aaacgctggt gaaagtaaaa 4020
191 gatgctgaag atcagttggg tgcacgagtg ggttacatcg aactggatct caacagcgg 4080
192 aagatccttg agagttttcg cccgaagaa cgttttcaa tgatgagcac ttttaaagtt 4140
193 ctgctatgtg gcgcggtatt atcccgatg gacgcggggc aagagcaact cggtcgccc 4200
194 atacactatt ctcaaatga cttggttgag tactaccag tcacagaaaa gcatcttac 4260
195 gatggcatga cagtaagaga attatgcagt gctgccataa ccatgagtga taactactgc 4320
196 gccaacttac ttctgacaac gatcggagga ccgaaggagc taaccgcttt tttgcacaac 4380
197 atgggggatc atgtaactcg ccttgatcgt tgggaaccgg agctgaatga agccatacca 4440
198 aacgacgagc gtgacaccac gatgcctgta gcaatggcaa caacgttgcg caaactatta 4500
199 actggcgaac tacttactct agcttcccgg caacaattaa tagactggat ggaggcgga 4560
200 aaagttgcag gaccacttct gcgctcgccc cttccggctg gctggtttat tgctgataaa 4620
201 tctggagccg gtgagcgttg gtcctcgcg atcattgcag cactggggcc agatggtaag 4680
202 cctcccgta tcgtagttat ctacacgacg gggagtcagg caactatgga tgaacgaaat 4740
203 agacagatcg ctgagatagg tgcctcactg attaagcatt ggtaactgtc agaccaagtt 4800
204 tactcatata tacttttagat tgatttaaaa cttcatTTTT aatttaaaaag gatctagggtg 4860

```

RAW SEQUENCE LISTING

DATE: 02/26/2005

PATENT APPLICATION: US/10/524,630

TIME: 10:51:49

Input Set : A:\PH-1850PCT-USsequencelisting.txt

Output Set: N:\CRF4\02262005\J524630.raw

```

205 aagatccttt ttgataatct catgacccaaa atcccttaac gtgagttttc gttccactga 4920
206 gcgtcagacc ccgtagaaaa gatcaaagga tcttcttgag atcctttttt tctgcgcgta 4980
207 atctgctgct tgcaaacaaa aaaaccaccg ctaccagcgg tggtttgttt gccggatcaa 5040
208 gagctaccaa ctctttttcc gaaggtaact ggcttcagca gagcgcagat accaaatact 5100
209 gttctttctag tgtagccgta gttaggccac cacttcaaga actctgtagc accgcctaca 5160
210 tacctcgctc tgctaactct gttaccagtg gctgctgcca gtggcgataa gtcgtgtctt 5220
211 accgggttg actcaagacg atagttaccg gataaggcgc agcggtcggg ctgaacgggg 5280
212 ggttcgtgca cacagcccag cttggagcga acgacctaca ccgaactgag atacctacag 5340
213 cgtgagctat gagaaagcgc cacgcttccc gaaggagaaa aggcggacag gtatccggta 5400
214 agcggcaggg tcggaacagg agagcgcacg agggagcttc cagggggaaa cgcctggtat 5460
215 ctttatagtc ctgtcgggtt tcgccacctc tgacttgagc gtcgattttt gtgatgctcg 5520
216 tcaggggggc ggagcctatg gaaaaacgcc agcaacgcgg cctttttacg gttcctggcc 5580
217 ttttgctggc cttttgctca catgttcttt cctgcgttat cccctgattc tgtggataac 5640
218 cgtattaccg cctttgagtg agctgatacc gctcgccgca gccgaacgac cgagcgcagc 5700
219 gagtcaagtga gcgaggaagc ggaagagcgc ccaatacgca aaccgcctct ccccgcgct 5760
220 tggccgattc attaatgcag ctggcacgac tagagtcccg ctgaggcggc gtagcaggtc 5820
221 agccgcccc a gcggtggtca ccaaccgggg tggaaaggcg ccggtatcgg gtgtgtccgt 5880
222 ggcgctcatt ccaacctccg tgtgtttgtg caggtttcgc gtgttcagc ccctcgcacc 5940
223 ggcacccgca gcgaggggct cacgggtgcc ggtgggtcga ctagtattat aatgatgatg 6000
224 atgatgatgc aggtgtttca ggatgaaatc cgaaagcaac ttgttgtatc cttcacgatc 6060
225 ctcccacatc gtgagggtgc agcaatccct gaagacgtga agttccgaac cagctatttt 6120
226 ttcattgtatg actctggcca cgtttggcgt gacctcatcg tattcgcca ccgttataag 6180
227 ggtggggatc tttattgcag atattttgtc cgtgatatcc cagtccttta tcgtgccggt 6240
228 tatggtgaac tcattcgggc cgttcattat cctgtatacg tttcgctttt ccgcgtattc 6300
229 tagtgatttg agtacctcgg gcggccaatc ctctgatctc agcagatgct gatggtaaaa 6360
230 gtagttcacg gcctcctgat attctggatt ctcgtaagat ccagatgaac cgtatttttt 6420
231 aatggcatct ctgtactttg ccgggagctc gtcaatgagc ctgttcattc cttcaccgt 6480
232 cagagggact gaagataagc ctccggatac gatgagccct ttcagatgat cctggtactt 6540
233 gactgcgtat gccagcgcca gcgctccacc atatgatgac cccatcaaaa ataccttctc 6600
234 gttgccgaac agctttgatc ttagggcctc tgcctcttcc acaccatagt caattgtgaa 6660
235 tttagactga tccggttcct cggatctacc gcatccaaac tgatcgtaga atagaaccgt 6720
236 tatcccttcc ttggtcatat ccctgagaga aagcaggtaa tcgtgggaca tgcccgggcc 6780
237 cccgtgcattg gtcattagct ttgctttctc ctccaggggt ttgcacagct tgtaataaat 6840
238 ataaattccg tttacctttg cgtagttttc tatgcattcc tgatccatgg ccgctccctt 6900
239 ctctgacgcc gtccacgctg cctcctcacg tgacgtgagg tgcaagccc gacgttccgc 6960
240 gtgccacgcc gtgagccgcc gcgtgccgtc ggctccctca gcccgggcgg ccgtgggagc 7020
241 ccgcctcgat atgtacaccc gagaagctcc cagcgtcctc ctgggcccgc atactcgacc 7080
242 accacgcacg cacaccgcac taacgattcg gccggcgctc gattcggccg gcgctcgatt 7140
243 cggccggcgc tcgattcggc cggcgctcga ttccggccggc gctcgattcg gccgagcaga 7200
244 agagtgaaca accaccgacc acgcttccgc tctgcgcgcc gtacccgacc tacctcccgc 7260
245 agctcgaagc agctcccggg agtaccgcgg tactcaccgg cctgtgctca ccatccaccg 7320
246 acgcaaagcc caacccgagc acacctcttg caccaagggt ccgaccgtgg ctttccgctc 7380
247 gcagggttcc agaagaaatc gaacgatcca gcgcggcaag gttcaaaaag caggggttg 7440
248 tggggaggag gttttggggg gtgtcgccgg gatacctgat atggctttgt tttgcgtagt 7500
249 cgaataattt tccatatagc ctgggcgcgt cggactcgaa tagttgatgt gggcgggcac 7560
250 agttgcccc aacgaaatccgc aacggggggc gtgctgagcg atcggcaatg ggcgatgctg 7620
251 gtgttgcttc cgcaccggcc gttcgcgacg aacaacctcc aacgaggtca gtaccggatg 7680
252 agccgcgacg acgcattggc aatgcggtac gtcgagcatt caccgcacgc gttgctcgga 7740
253 tctatcgtea tcgactgcga tcacgttgac gccgcgatgc gcgcattcga gcaaccatcc 7800

```

VERIFICATION SUMMARY

DATE: 02/26/2005

PATENT APPLICATION: US/10/524,630

TIME: 10:51:50

Input Set : A:\PH-1850PCT-USsequencelisting.txt

Output Set: N:\CRF4\02262005\J524630.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date